

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A ~~system comprising:~~  
~~a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;~~  
~~a single supply source having multiple voltage taps to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level~~ The hearing aid of claim 3, wherein the common substrate is an insulating alumina substrate.
2. (Currently Amended) The ~~system~~ hearing aid of claim [[1]] 7, wherein the single supply source is a battery having multiple voltage taps.
3. (Currently Amended) The ~~system~~ hearing aid of claim 2, wherein the battery includes a common substrate on which a plurality of battery regions are disposed, each battery region providing a supply voltage, the supply voltage of at least one battery region at a rated voltage level different than the other battery regions from another battery region of the plurality of battery regions.
4. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the common substrate is a rigid ceramic platform substrate.
5. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the common substrate is a flexible platform in a folded configuration.
6. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the common substrate is a flexible platform in a rolled configuration.

7. (Currently Amended) The system of claim 3, wherein the system is a A hearing aid comprising:

a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;

a single supply source having multiple voltage taps to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level; and

a housing containing the plurality of electronic devices and the single supply source, the housing structured to mount in or about an ear of a person.

8. (Currently Amended) The system hearing aid of claim 7, wherein the hearing aid further includes a battery management unit having circuitry to monitor the voltage level of each battery region.

9. (Currently Amended) The system hearing aid of claim 8, wherein the battery management unit includes circuitry to output an audible notice when the voltage level of a battery region reaches a minimum operational level.

10. (Currently Amended) The system hearing aid of claim 7, wherein the battery includes three battery regions on a common substrate.

11. (Currently Amended) The system hearing aid of claim 7, wherein the battery includes a 1.3V tap, a 2.6V tap, and a 3.8V tap.

12. (Currently Amended) The system hearing aid of claim 7, wherein the hearing aid further includes a battery recharge control.

13. (Currently Amended) The system hearing aid of claim 12, wherein the battery recharge control includes a switching circuit to independently couple a voltage tap to a recharge circuit.

14. (Currently Amended) The system hearing aid of claim 12, wherein the battery recharge

control includes a number of voltage regulators to limit the voltage recharge to a voltage at or below a selected recharge voltage level.

15. (Currently Amended) The system hearing aid of claim 7, wherein the hearing aid includes a switching network to selectively switch an electronic device of the plurality of electronic devices to any voltage tap of the multiple voltage taps.

16. (Currently Amended) The system hearing aid of claim 7, wherein the hearing aid includes:

a microphone;

a signal processor; and

an amplifier, wherein each of the microphone, the signal processor, and the amplifier are powered by a different voltage tap of the battery.

17. (Currently Amended) The system hearing aid of claim 7, wherein the hearing aid further includes one or more regulators, each regulator associated with a different voltage tap of the battery.

18. (Currently Amended) The system hearing aid of claim 7, wherein the hearing aid further includes a wireless link that operates with a supply voltage greater than 1.3V.

19. (Currently Amended) A hearing aid comprising:

a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;

a battery to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level; and

the housing containing the plurality of electronic devices and the single supply source, the housing structured to mount in or about an ear of a person, wherein the battery comprising includes:

a substrate;

a plurality of battery regions disposed on the substrate, each battery region to provide a different supply voltage;

a plurality of buffer regions, one or more buffer regions separating each battery region; and

a plurality of voltage taps, wherein each battery region has a voltage tap.

20. (Currently Amended) The battery hearing aid of claim 19, wherein the substrate is a rigid platform.

21. (Currently Amended) The battery hearing aid of claim 19, wherein the substrate is a flexible platform such that the battery has [[in]] a folded configuration.

22. (Currently Amended) The battery hearing aid of claim 19, wherein the substrate is a flexible platform such that the battery has [[in]] a rolled configuration.

23. (Currently Amended) The battery hearing aid of claim 19, wherein the number of battery regions is three.

24. (Currently Amended) The battery hearing aid of claim 19, wherein the battery includes a 1.3V supply voltage, a 2.6V supply voltage, and a 3.8V supply voltage.

25. (Currently Amended) The battery hearing aid of claim 19, further including a reference contact common to each battery region.

26. (Currently Amended) The battery hearing aid of claim 19, further including a number of reference contacts, each reference contact coupled to a different battery region.

27. (Currently Amended) The battery hearing aid of claim 19, wherein one or more of the battery regions are rechargeable.

28. (Currently Amended) A method of manufacturing a hearing aid comprising:  
mounting a number of electronic devices into a housing of a hearing aid, the housing  
structured to mount in or about an ear of a person, each electronic device configured to operate  
under a different supply voltage; and

providing the hearing aid with a single supply source to provide the different supply  
voltages without up-converting a voltage level or down-converting a voltage level.

29. (Original) The method of claim 28, wherein providing the hearing aid with a single  
supply source includes providing the hearing aid with a battery having multiple voltage taps.

30. (Currently Amended) The method of claim 29, wherein providing the hearing aid with a  
battery having multiple voltage taps includes providing the battery having a common substrate  
on which a plurality of battery regions are disposed, each battery region providing a supply  
voltage, the supply voltage of at least one battery region at a rated voltage level different than the  
other from another battery region of the plurality of battery regions.

31. (Original) The method of claim 30, wherein providing a battery having a common  
substrate includes providing the battery with the common substrate formed as a rigid platform.

32. (Original) The method of claim 30, wherein providing a battery having a common  
substrate includes providing the battery with the common substrate formed as a flexible platform  
in a folded configuration.

33. (Original) The method of claim 30, wherein providing a battery having a common  
substrate includes providing the battery with the common substrate formed as a flexible platform  
in a rolled configuration.

34. (Original) The method of claim 29, wherein the method further includes providing a  
wireless link that operates with a supply voltage greater than 1.3V.